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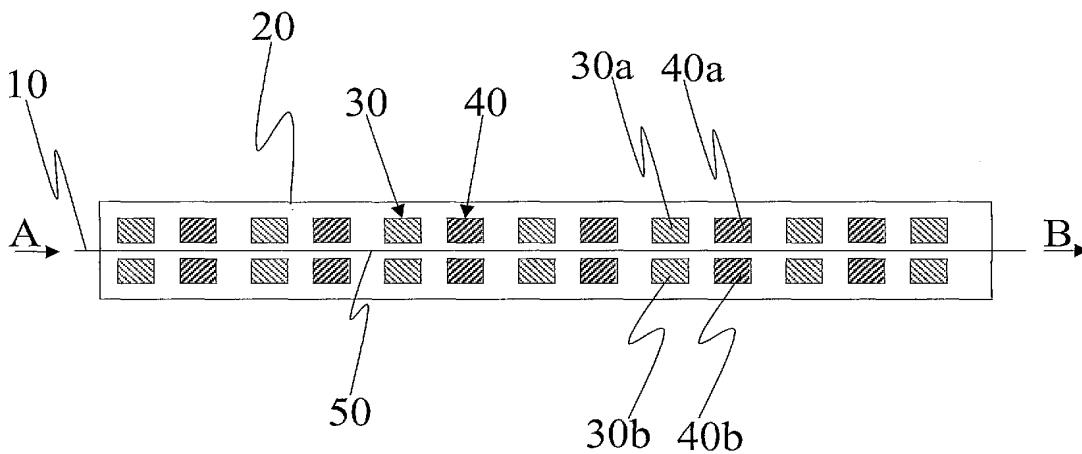
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(54) Title: PROCESS FOR PRODUCING A METAL WIRE COATED BY MEANS OF A PLASMA DEPOSITION TECHNIQUE



(57) **Abstract:** The present invention relates to a process for manufacturing a metal wire comprising a steel core and a metal coating layer in a radially outer position with respect to said steel core. The metal coating layer comprises an alloy of at least two metal components. The process comprises the steps of coating the steel core by depositing onto the steel core separate layers of the two metal components, each layer having a thickness not higher than 50 nm, and drawing the coated core to form the alloy of said at least two metal components. Preferably, the deposition step is carried out by means of a plasma deposition technique.

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